AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-26 (canceled).

27. (new): A computer readable medium encoded with operating instructions for implementing a method of coding a motion vector, performed by a computer, the method comprising:

performing an affine motion estimation to obtain affine motion parameters;

converting the affine motion parameters to a predetermined number of translational motion vectors; and

coding the difference between the converted translational motion vectors of a current block and the converted translational motion vectors of a previous block.

28. (new): A computer readable medium encoded with operating instructions for implementing a motion estimation method performed by a computer, the method comprising:

performing an affine motion estimation to obtain affine motion parameters; and

converting the affine motion parameters to a predetermined number of translational motion vectors.

29. (new): The computer readable medium of claim 28, further comprising quantizing the converted translational motion vectors to fixed-point numbers having a predetermined accuracy.

30. (new): A computer readable medium encoded with operating instructions for implementing a method of decoding a motion vector, performed by a computer, the method comprising:

receiving encoded data;

decoding the received data to obtain translational motion vectors;

converting the obtained translational motion vectors to affine motion parameters; and

performing motion compensation using the obtained affine motion parameters.